

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

| | | | |
|--------------|----|--------|---|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | Dec 17 | The CA Lexicon available in the CAPLUS and CA files |
| NEWS | 3 | Feb 06 | Engineering Information Encompass files have new names |
| NEWS | 4 | Feb 16 | TOXLINE no longer being updated |
| NEWS | 5 | Apr 23 | Search Derwent WPINDEX by chemical structure |
| NEWS | 6 | Apr 23 | PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA |
| NEWS | 7 | May 07 | DGENE Reload |
| NEWS | 8 | Jun 20 | Published patent applications (A1) are now in USPATFULL |
| NEWS | 9 | JUL 13 | New SDI alert frequency now available in Derwent's DWPI and DPCI |
| NEWS | 10 | Aug 23 | In-process records and more frequent updates now in MEDLINE |
| NEWS | 11 | Aug 23 | PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA |
| NEWS | 12 | Aug 23 | Adis Newsletters (ADISNEWS) now available on STN |
| NEWS | 13 | Sep 17 | IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH |
| NEWS | 14 | Oct 09 | Korean abstracts now included in Derwent World Patents Index |
| NEWS | 15 | Oct 09 | Number of Derwent World Patents Index updates increased |
| NEWS | 16 | Oct 15 | Calculated properties now in the REGISTRY/ZREGISTRY File |
| NEWS | 17 | Oct 22 | Over 1 million reactions added to CASREACT |
| NEWS | 18 | Oct 22 | DGENE GETSIM has been improved |
| NEWS | 19 | Oct 29 | AAASD no longer available |
| NEWS | 20 | Nov 19 | New Search Capabilities USPATFULL and USPAT2 |
| NEWS | 21 | Nov 19 | TOXCENTER(SM) - new toxicology file now available on STN |
| NEWS | 22 | Nov 29 | COPPERLIT now available on STN |
| NEWS | 23 | Nov 29 | DWPI revisions to NTIS and US Provisional Numbers |
| NEWS | 24 | Nov 30 | Files VETU and VETB to have open access |
| NEWS | 25 | Dec 10 | WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002 |
| NEWS | 26 | Dec 10 | DGENE BLAST Homology Search |
| NEWS | 27 | Dec 17 | WELDASEARCH now available on STN |
| NEWS | 28 | Dec 17 | STANDARDS now available on STN |
| NEWS | 29 | Dec 17 | New fields for DPCI |
| NEWS | 30 | Dec 19 | CAS Roles modified |
| NEWS | 31 | Dec 19 | 1907-1946 data and page images added to CA and Caplus |
| NEWS EXPRESS | | | August 15 CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001 |
| NEWS HOURS | | | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | | | General Internet Information |
| NEWS LOGIN | | | Welcome Banner and News Items |
| NEWS PHONE | | | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | | | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:14:58 ON 24 DEC 2001

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.15

0.15

FILE 'REGISTRY' ENTERED AT 09:15:07 ON 24 DEC 2001

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 23 DEC 2001 HIGHEST RN 378185-72-9

DICTIONARY FILE UPDATES: 23 DEC 2001 HIGHEST RN 378185-72-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNnote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading 09720965 cl 1 query.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam

SAMPLE SEARCH INITIATED 09:16:01 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED

0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> search l1 sss full
FULL SEARCH INITIATED 09:16:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 59 TO ITERATE

100.0% PROCESSED 59 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.03

L3 0 SEA SSS FUL L1

=> file marpat
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 133.87 134.02

FILE 'MARPAT' ENTERED AT 09:16:36 ON 24 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

FILE CONTENT: 1988-PRESENT (VOL 104 ISS 15-VOL 135 ISS 26) (20011221/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 200104700 29 NOV 2001
DE 20110918 22 NOV 2001
EP 1158048 28 NOV 2001
JP 200132891 27 NOV 2001
WO 200109075 29 NOV 2001

MARPAT structure search limits have been raised.
Enter HELP SLIMIT for details.

=> l3
STRUCTURE TOO LARGE - SEARCH ENDED
A structure in your query is too large. You may delete
attributes or atoms to reduce the size of the structure
and try again.

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.93 134.95

FILE 'REGISTRY' ENTERED AT 09:18:40 ON 24 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 23 DEC 2001 HIGHEST RN 378185-72-9
DICTIONARY FILE UPDATES: 23 DEC 2001 HIGHEST RN 378185-72-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading 09720965 cl 1 query.str

L4 STRUCTURE UPLOADED

=> d l4

L4 HAS NO ANSWERS

L4 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> file marpat

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.31

135.26

FILE 'MARPAT' ENTERED AT 09:19:27 ON 24 DEC 2001

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2001 American Chemical Society (ACS)

FILE CONTENT: 1988-PRESENT (VOL 104 ISS 15-VOL 135 ISS 26) (20011221/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES

(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 200104700 29 NOV 2001

DE 20110918 22 NOV 2001

EP 1158048 28 NOV 2001

JP 200132891 27 NOV 2001

WO 200109075 29 NOV 2001

MARPAT structure search limits have been raised.

Enter HELP SLIMIT for details.

=> search l4 sss sam

CHANGE MLEVEL FOR ANY NODES? Y/(N)/?:n

CHANGE ECLEVEL FOR ALL NODES AND GROUPS? (LIMITED)/UNLIMITED/N/?:n

ISOLATE ALL RINGS IN THE STRUCTURE? (Y)/N/?:n

SAMPLE SEARCH INITIATED 09:20:12 FILE 'MARPAT'

SAMPLE SCREEN SEARCH COMPLETED - 1675 TO ITERATE

57.9% PROCESSED 969 ITERATIONS

0 ANSWERS

57.9% PROCESSED 969 ITERATIONS

0 ANSWERS

59.7% PROCESSED 1000 ITERATIONS (1 INCOMPLETE)

1 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.33

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 31304 TO 35696
 PROJECTED ANSWERS: 1 TO 110

L5 1 SEA SSS SAM L4

=> d scan

L5 1 ANSWERS MARPAT COPYRIGHT 2001 ACS

IC ICM C07D487-04

ICS A61K031-395

CC 26-5 (Biomolecules and Their Synthetic Analogs)

TI synthesis and antibiotic activity of stabilized carbapenems

ST carbapenem prepn antibiotic

IT .beta.-Lactam antibiotics

(carbapenem; synthesis and antibiotic activity of stabilized carbapenems)

IT 161665-98-1P 161666-04-2P 207121-11-7P 207121-12-8P 207121-13-9P
 207121-14-0P 207121-15-1P 207121-16-2P 207121-17-3P 207121-18-4P
 207121-19-5P 207121-20-8P 207121-21-9P 207121-22-0P 207121-23-1P
 207121-24-2P 207121-25-3P 207121-26-4P 207121-27-5P 207121-28-6P
 207121-29-7P 207121-30-0P 207121-31-1P 207121-32-2P 207121-33-3P
 207121-34-4P 207121-35-5P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis and antibiotic activity of stabilized carbapenems)

IT 598-41-4 161666-64-4 165894-46-2 171009-52-2

RL: RCT (Reactant)

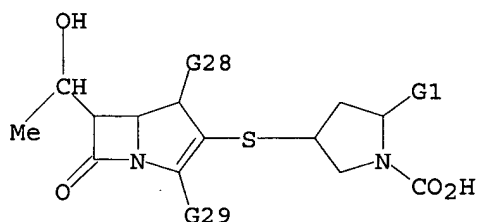
(synthesis and antibiotic activity of stabilized carbapenems)

IT 161666-65-5P 161666-66-6P 171009-53-3P 207121-09-3P 207121-10-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

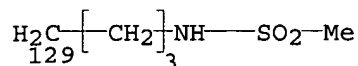
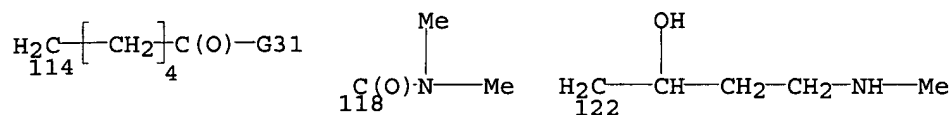
(synthesis and antibiotic activity of stabilized carbapenems)

MSTR 1 ITERATION INCOMPLETE

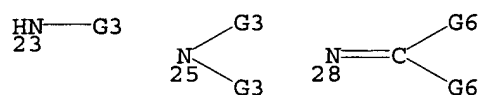


G1 = H / CN / 21 / alkyl<(1-6)> (SO (1-3) G15) /
 cycloalkyl<(3-6)> (SO) / alkenyl<(2-6)> (SO) / 45 / (SC 104 /
 114 / 118 / 122 / 129)

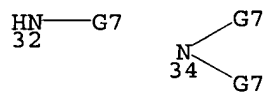
$\overset{\text{C(O)-G2}}{\underset{21}{\text{H}_2\text{C}}}$ $\overset{\text{G11-G13-G12}}{\underset{45}{\text{H}_2\text{C}}}$ $\text{—CH}_2\text{—S—CH}_2\text{—CH}_2\text{—C(O)—G31}$
 $\underset{104}{\text{H}_2\text{C}}$



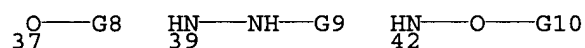
G2 = NH2 / 23 / 25 / Hy<EC (1-2) Q (1-) N (-1) O (-1)
 S (0) OTHERQ, AN (1-) N, BD (0-) D, RC (1), RS (1) X7>
 (SO G5) / 28



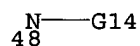
G3 = alkyl<(1-5)> (SO) / alkenyl<(3-5)> /
 alkyl<(1-3)> (SR (1-) G4) / pyridyl
 G4 = aryl (SO)
 G5 = alkyl<(2-3)> / R
 G6 = NH2 / 32 / 34



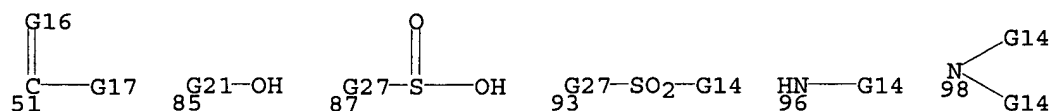
G7 = alkyl<(1-6)> / OH / 37 / NHNH2 / 39 / NHOH / 42



G8 = R<TX "protecting group"> /
 Ak<EC (1-6) C, BD (0-) D (0-) T>
 G9 = alkyl<(1-3)>
 G10 = R<TX "protecting group"> / alkyl<(1-6)>
 G11 = alkylene<(1-6)> (SO)
 G12 = alkyl<(1-6)> (SO)
 G13 = O / S / NH / 48

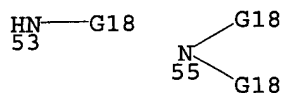


G14 = alkyl<(1-6)>
 G15 = 51 / 85 / OCONH2 / OH / 87 / 93 / NH2 / 96 / 98

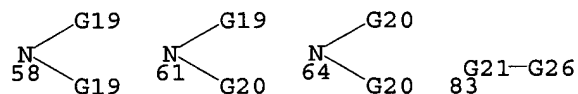


G16 = O / NH

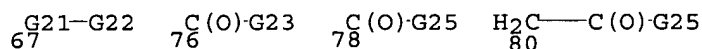
G17 = NH2 / 53 / 55 / Hy<EC (1) N, AN (1) N> (SO G18)



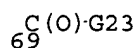
G18 = 58 / 61 / 64 / Hy (SO) / alkyl (SO (1-3) G33) /
aryl (SO (1-3) G32) / heteroaryl (SO (1-3) G32) / 83



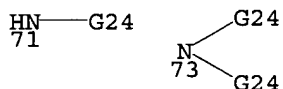
G19 = H / OCONH2 / NHCONH2
G20 = CN / 67 / 76 / 78 / 80



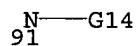
G21 = alkylene<(1-6)>
G22 = OH / 69 / CN / NH2 / OCONH2 / NHCONH2



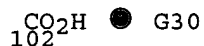
G23 = NH2 / 71 / 73



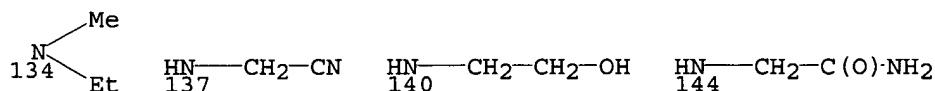
G24 = alkyl<(1-6)>
G25 = Hy<EC (1-) N, AN (1-) N, RC (1), RS (1) X6> (SO)
G26 = OH / OCONH2
G27 = NH / 91

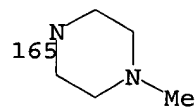
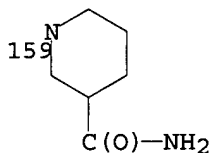
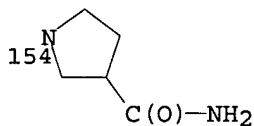
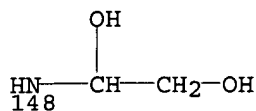


G28 = H / alkyl<(1-6)> / (SC Me)
G29 = CO2H / (SC 102)

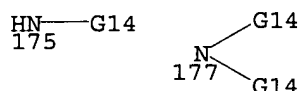


G30 = R<TX "pharmaceutically acceptable salt cation"> /
(EX Na / K / Mg / Ca)
G31 = NH2 / NHMe / NMe2 / 134 / 137 / 140 / 144 / 148 /
154 / 159 / 165

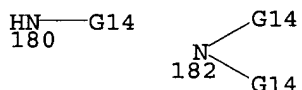




G32 = R / (SC CO2H / alkoxy carbonyl<(1-6)> / F / Cl / Br /
I / CF3 / alkyl<(1-6)> / OH / NH2 / 175 / 177)



G33 = R / (SC CO2H / alkoxy carbonyl<(1-6)> / F / Cl / Br /
I / CF3 / OH / NH2 / 180 / 182)



DER: or pharmaceutically acceptable prodrugs or hydrates
MPL: claim 1
NTE: substitution is restricted
NTE: alkyl moieties may be cyclic

ALL ANSWERS HAVE BEEN SCANNED

=> search l4 sss full

CHANGE MLEVEL FOR ANY NODES? Y/(N)/?:n

CHANGE ECLEVEL FOR ALL NODES AND GROUPS? (LIMITED)/UNLIMITED/N/?:n

ISOLATE ALL RINGS IN THE STRUCTURE? (Y)/N/?:n

FULL SEARCH INITIATED 09:22:50 FILE 'MARPAT'

FULL SCREEN SEARCH COMPLETED - 33310 TO ITERATE

| | | | |
|------------------|------------------|------------------|------------|
| 23.7% PROCESSED | 7889 ITERATIONS | (2 INCOMPLETE) | 2 ANSWERS |
| 48.0% PROCESSED | 15983 ITERATIONS | (7 INCOMPLETE) | 7 ANSWERS |
| 68.9% PROCESSED | 22951 ITERATIONS | (13 INCOMPLETE) | 13 ANSWERS |
| 88.3% PROCESSED | 29424 ITERATIONS | (21 INCOMPLETE) | 21 ANSWERS |
| 96.5% PROCESSED | 32151 ITERATIONS | (30 INCOMPLETE) | 30 ANSWERS |
| 99.6% PROCESSED | 33183 ITERATIONS | (34 INCOMPLETE) | 34 ANSWERS |
| 100.0% PROCESSED | 33310 ITERATIONS | (34 INCOMPLETE) | 34 ANSWERS |

SEARCH TIME: 00.01.58

L6 34 SEA SSS FUL L4

=> d scan

L6 34 ANSWERS MARPAT COPYRIGHT 2001 ACS

IC ICM C07D473-10
ICS A61K031-52

CC 26-9 (Biomolecules and Their Synthetic Analogs)
Section cross-reference(s): 1

TI Preparation of xanthines and analogs as second messenger cell signaling inhibitors

ST xanthine analog prepn drug; second messenger signaling inhibitor xanthine analog; immunosuppressant xanthine analog; fungicide xanthine analog; antiinflammatory xanthine analog

IT Cytotoxic agents
Fungicides and Fungistats
Immunosuppressants
Inflammation inhibitors
Neoplasm inhibitors
(prepn. of xanthines and analogs as second messenger cell signaling inhibitors)

IT Signal transduction, biological
(second messenger system, prepn. of xanthines and analogs as second messenger cell signaling inhibitors)

IT 160943-51-1P 160943-52-2P 160943-53-3P 160943-54-4P 160943-55-5P
160943-56-6P 160943-57-7P 160943-58-8P 160943-59-9P 160943-60-2P
160943-61-3P 160943-62-4P 160943-63-5P 160943-64-6P 160943-65-7P
160943-66-8P 160943-67-9P 160943-68-0P 160943-69-1P 160943-70-4P
160943-74-8P 160943-75-9P 160943-76-0P 160943-77-1P 160943-78-2P
160943-79-3P 160943-80-6P 160943-81-7P 160943-82-8P 160943-83-9P
160943-84-0P 160943-85-1P 160943-86-2P 160943-87-3P 160943-88-4P
160943-89-5P 160943-90-8P 160943-91-9P 160943-92-0P 160943-93-1P
160943-94-2P 160943-95-3P 160943-96-4P 160943-97-5P 160943-98-6P
160943-99-7P 160944-00-3P 160944-01-4P 160944-02-5P 160944-03-6P
160944-04-7P 160944-05-8P 160944-06-9P 160944-07-0P 160944-08-1P
160944-09-2P 160944-10-5P 160944-11-6P 160944-12-7P 160944-13-8P
160944-14-9P 160944-15-0P 160944-16-1P 160944-17-2P 160944-18-3P
160944-19-4P 160944-20-7P 160944-21-8P 160944-22-9P 160944-23-0P
160944-24-1P 160944-25-2P 160944-26-3P 160944-27-4P 160944-28-5P
160944-29-6P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of xanthines and analogs as second messenger cell signaling inhibitors)

IT 83-67-0, Theobromine 86-96-4, Benzoyleneurea 143-16-8, Dihexylamine 615-77-0, 1-Methyluracil 1121-89-7, Glutarimide 2016-42-4, 1-Tetradecylamine 2393-23-9, 4-Methoxybenzylamine 2695-47-8, 6-Bromo-1-hexene 3218-02-8, Cyclohexanemethylamine 4048-33-3, 6-Amino-1-hexanol 4160-72-9, 1-Methylthymine 7307-55-3, 1-Undecylamine 7766-50-9, 1-Bromo-10-undecene 13214-66-9, 4-Phenyl-butylamine 89359-54-6, 9-Bromo-1-nonene

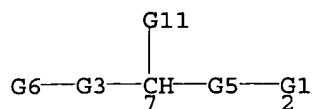
RL: RCT (Reactant)
(prepn. of xanthines and analogs as second messenger cell signaling inhibitors)

IT 604-50-2P 34832-53-6P 38975-41-6P 58999-18-1P 154719-57-0P
156918-12-6P 156918-17-1P 156918-27-3P 156918-55-7P 156918-62-6P
156918-63-7P 156918-64-8P 156918-65-9P 156918-66-0P 159431-73-9P
159431-74-0P 159431-75-1P 160278-89-7P 160278-95-5P 160278-97-7P
160279-27-6P 160279-34-5P 160279-35-6P 160279-37-8P 160279-38-9P
160279-39-0P 160943-49-7P 160943-50-0P 160943-71-5P 160943-72-6P
160943-73-7P

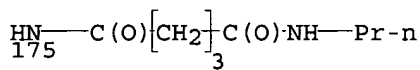
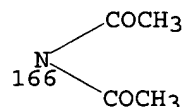
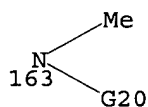
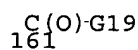
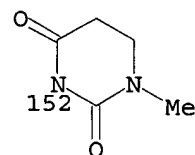
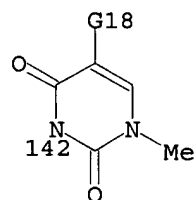
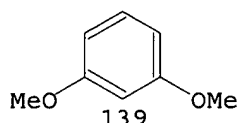
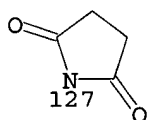
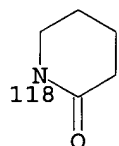
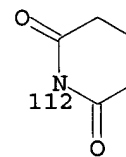
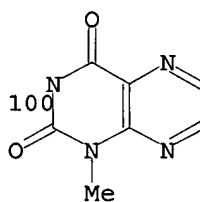
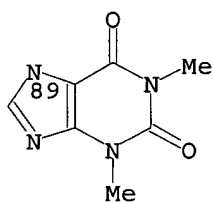
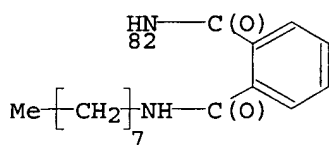
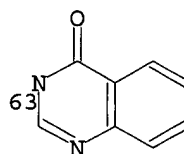
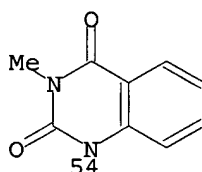
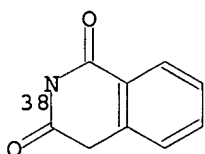
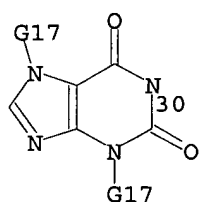
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of xanthines and analogs as second messenger cell signaling inhibitors)

inhibitors)

MSTR 1 ITERATION INCOMPLETE



G1 = R<TX "non-cyclic core moiety"> / Cb (SO) / Hy (SO) /
(SC 30 / phthalimido / 38 / 175 / 54 / 63 / 82 / OH / 89 /
100 / 112 / 118 / 127 / 139 / 142 / 152 / H / 161 / 163 /
166)

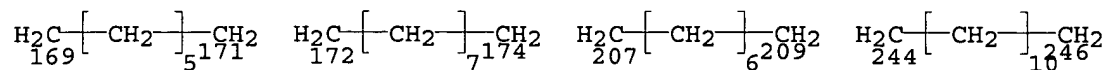


G3 = alkylene<EC (1-4) C, DC (0) M3> (SO OH) / 9 /
(SC CH2)

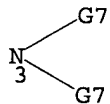


G4 = Ak<EC (1-4) C, BD (ALL) SE, DC (0) M3> (SO OH)

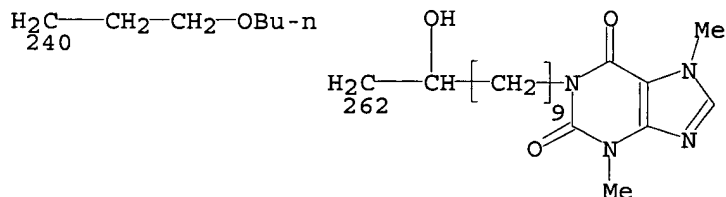
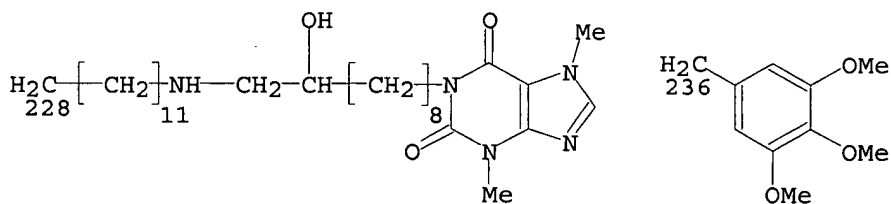
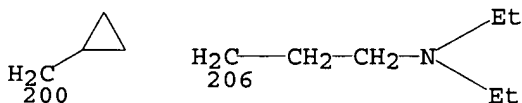
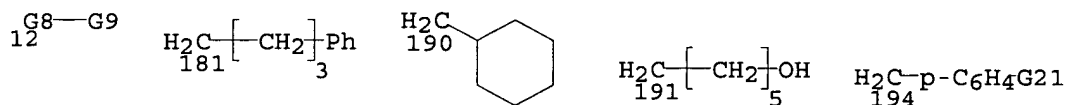
G5 = alkylene<EC (4-14) C, DC (0) M3> / (SC 169-2 171-7 / 172-2 174-7 / CH₂CH₂CH₂CH₂ / 207-2 209-7 / 244-2 246-7 / CH₂CH₂)



G6 = 3 / Hy<EC (1-) Q (1-) N (4-8) C, AN (1-) N> (SO)



G7 = H / alkyl<(1-12)> / alkenyl<(2-12)> / 12 / (SC octyl / CH₂Ph / Pr-n / tetradecyl / undecyl / 181 / 190 / 191 / hexyl / 194 / 200 / decyl / dodecyl / CH₂CH=CH₂ / octadecyl / Me / 206 / 228 / 236 / 240 / 262 / COMe)



G8 = alkylene<EC (2-14) C, DC (0) M3>
 G9 = aryl (SO (1-3) G10)
 G10 = OH / Cl / F / Br / alkoxy<(1-6)>
 G11 = OH / alkoxy<(1-3)> / 14

O—G12-G15-G14
14

G12 = alkylene<EC (1-14) C, DC (0) M3> (SO OH) / 18

G13=O
18

G13 = Ak<EC (1-14) C, BD (ALL) SE, DC (0) M3> (SO OH)
G14 = H / alkyl<(1-8)> / alkenyl<(2-8)> / 20 /
Hy<EC (1-) Q (1-) N (4-8) C, AN (1-) N> (SO)

G8—G9
20

G15 = Hy<EC (2) Q (1) N (1) O (3-6) C, AN (1) N (1-) C,
AR (0), BD (ALL) SE, RC (1), RS (1) M5 (1) X8> (SO OH) / 22

G16=O
22

G16 = Hy<EC (2) Q (1) N (1) O (3-6) C, AN (1) N (1-) C,
AR (0), BD (ALL) SE, RC (1), RS (1) M5 (1) X8> (SO OH)
G17 = H / Me / F / Cl / NH2
G18 = H / Me
G19 = NH2 / OMe / OH / NHMe / NMe2
G20 = CPh / COMe
G21 = OMe / F / CF3 / NH2
MPL: claim 1

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> save temp l6 chelatmarpat/a
ANSWER SET L6 HAS BEEN SAVED AS 'CHELATMARPAT/A'

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 97.72 | 232.98 |

FILE 'CAPLUS' ENTERED AT 09:26:24 ON 24 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1907 - 24 Dec 2001 VOL 135 ISS 26
FILE LAST UPDATED: 23 Dec 2001 (20011223/ED)

This file contains CAS Registry Numbers for easy and accurate

substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> l6

L7 34 L6

=> chelat?

L8 105678 CHELAT?

=> l8 and l7

L9 3 L8 AND L7

=> d l9i

'L9I' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
 SCAN must be entered on the same line as the DISPLAY,
 e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels

IBIB ----- BIB, indented with text labels
 IMAX ----- MAX, indented with text labels
 ISTD ----- STD, indented with text labels

 OBIB ----- AN, plus Bibliographic Data (original)
 OIBIB ----- OBIB, indented with text labels

 SBIB ----- BIB, no citations
 SIBIB ----- IBIB, no citations

 HIT ----- Fields containing hit terms
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
 containing hit terms
 HITRN ----- HIT RN and its text modification
 HITSTR ----- HIT RN, its text modification, its CA index name, and
 its structure diagram
 HITSEQ ----- HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and
 its structure diagram
 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 KWIC ----- Hit term plus 20 words on either side
 OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
 ENTER DISPLAY FORMAT (BIB):end

=> d l9 1-3 ti

```

L9  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2001 ACS
TI  Preparation of metal chelates as pharmaceutical imaging agents

L9  ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2001 ACS
TI  Preparation of metal chelates of cysteinylethylene,
    thioacetamidethiourea, or dithiourea derivatives as pharmaceutical
    imaging
    agents

L9  ANSWER 3 OF 3  CAPLUS  COPYRIGHT 2001 ACS
TI  A concentrated color developer composition for silver halide photographic
    light-sensitive materials
  
```

=> d l9 1-3 ti fbib abs

```

L9  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2001 ACS
TI  Preparation of metal chelates as pharmaceutical imaging agents
AN  1999:733055  CAPLUS
DN  131:345771
TI  Preparation of metal chelates as pharmaceutical imaging agents
IN  Marzilli, Luigi G.; Lipowska, Malgorzata; Hansen, Lory; Taylor, Andrew,
  
```

Jr.
PA Emory University, USA
SO U.S., 32 pp., Cont.-in-part of U.S. Ser. No. 643,413, abandoned.
CODEN: USXXAM
DT Patent
LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| PI | US 5986074 | A | 19991116 | US 1997-993219 | 19971218 |
| | | | | US 1996-643413 | 19960506 |
| | US 5955053 | A | 19990921 | US 1996-643413 | 19960506 |

PATENT FAMILY INFORMATION:

FAN 1999:606902

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| PI | US 5955053 | A | 19990921 | US 1996-643413 | 19960506 |
| | US 5986074 | A | 19991116 | US 1997-993219 | 19971218 |
| | | | | US 1996-643413 | 19960506 |

OS MARPAT 131:345771

AB The present invention relates to novel metal **chelates**, exemplified as technetium-99m or rhenium **chelates**, and to the process of prepg. such metal **chelates** from corresponding ligands. These ligands and their corresponding metal **chelates** were synthesized to have a cysteinylethylene (EC) structure, a monothiourea (MTU) structure, or a dithiourea (DTU) structure. Thus, 99mTcO(CEMA) [H3CEMA = HSCH2CH(COOH)NHCH2CH2NHC(O)CH2SCH2Ph], was prepd. and biodistribution studied for four isomeric forms of the complex (syn- and anti-, D and L). The present invention further relates to a pharmaceutical compn. comprising a metal **chelate**, for example, a 99Tc-**chelate**, to the use of the compn. for renal imaging and examn. of renal function, and to a kit for prepg. such a compn. prior to use.

RE.CNT 46

RE

(2) Anon; EP 0173424 A1 1986 CAPLUS
(3) Anon; EP 0250013 B1 1987 CAPLUS
(4) Anon; WO 92/05154 1992 CAPLUS
(8) Eshima, D; Current Applications in Radiopharmacology 1986, P237 CAPLUS
(9) Eshima, D; J Nuclear Medicine 1987, V28(7), P1180 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2001 ACS

TI Preparation of metal **chelates** of cysteinylethylene, thioacetamidethiourea, or dithiourea derivatives as pharmaceutical imaging agents

AN 1999:606902 CAPLUS

DN 131:251747

TI Preparation of metal **chelates** of cysteinylethylene, thioacetamidethiourea, or dithiourea derivatives as pharmaceutical imaging agents

IN Marzilli, Luigi Gaetano; Lipowska, Malgorzata; Hansen, Lory; Taylor, Andrew, Jr.

PA Emory University, USA

SO U.S., 23 pp.

CODEN: USXXAM

DT Patent

LA English

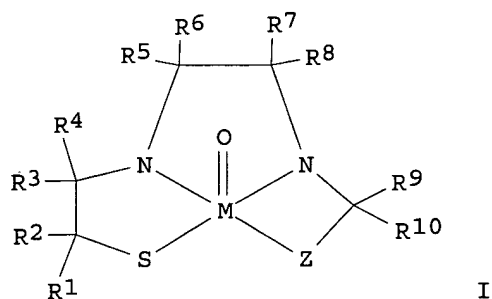
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|-------|----------|-----------------|----------|
| | ----- | ----- | ----- | ----- | ----- |
| PI | US 5955053 | A | 19990921 | US 1996-643413 | 19960506 |
| | US 5986074 | A | 19991116 | US 1997-993219 | 19971218 |
| | | | | US 1996-643413 | 19960506 |

PATENT FAMILY INFORMATION:

FAN 1999:733055

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------------|-------|----------|-----------------|----------|
| | ----- | ----- | ----- | ----- | ----- |
| PI | US 5986074 | A | 19991116 | US 1997-993219 | 19971218 |
| | | | | US 1996-643413 | 19960506 |
| | US 5955053 | A | 19990921 | US 1996-643413 | 19960506 |
| OS | MARPAT 131:251747 | | | | |
| GI | | | | | |



AB The present invention relates to novel metal **chelates**, exemplified as 99mTc or Re **chelates**, and to the process of prepg. such metal **chelates** from corresponding ligands. Claimed are metal **chelates** which have a cysteinylethylene (CE) structure I (R1-R10 = H, C1-4 alkyl, A-CO2H where A = C0-4; R5R6, R7R8, R9R10 = O,

Z = CH2S, or 2-pyridyl, 2-pyrazinyl derivs., CH2NH, etc., M = Tc, Re, Cd, Pb, Zn, Hg, Ag, Au, Ga, Pt, Pd, Rh, Cr, V). The invention also provides metal **chelates** based upon a thioacetamidethiourea structure or dithiourea structure. General synthetic procedures for the ligands and for 99Tc and Re complexes are given in the examples with reaction schemes.

The ligands need not exist in a stereoisomeric form. The present invention further relates to a pharmaceutical compn. comprising a metal **chelate**, e.g., a 99 Tc-**chelate**, to the use of the compn. for renal imaging and examn. of renal function, and to a kit for prepg. such a compn. prior to use.

RE.CNT 10

RE

- (1) Anon; WO 9205154 1992 CAPLUS
- (3) Eshima, D; J Nuclear Medicine 1987, V28(7), P1180 CAPLUS
- (4) Nosco; US 4925650 1990 CAPLUS
- (5) Shattuck, L; J Nuclear Medicine 1994, V35(2), P349 CAPLUS
- (8) Verbruggen; US 4849511 1989 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS

TI A concentrated color developer composition for silver halide photographic light-sensitive materials

AN 1993:505768 CAPLUS

DN 119:105768

TI A concentrated color developer composition for silver halide photographic light-sensitive materials
 IN Takabayashi, Naoki; Uno, Mitsuhiko; Furuya, Masaaki
 PA Konica Co., Japan
 SO Eur. Pat. Appl., 52 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------------|------|----------|------------------|----------|
| PI | EP 528406 | A1 | 19930224 | EP 1992-114089 | 19920818 |
| | R: DE, FR, GB, NL | | | | |
| | US 5260185 | A | 19931109 | JP 1991-232282 A | 19910820 |
| | | | | US 1992-928872 | 19920811 |
| | | | | JP 1991-232282 A | 19910820 |
| | JP 05197105 | A2 | 19930806 | JP 1992-241192 | 19920818 |
| | JP 3135694 | B2 | 20010219 | | |
| | | | | JP 1991-232282 A | 19910820 |

OS MARPAT 119:105768

GI For diagram(s), see printed CA Issue.

AB The title developer compn. comprises a compd. from I, R2R3NOH and R4R5R6N(R7)mR8 [X = O, NR1(R1 = H, OH, alkyl); n = 0-2; R2-R3 = H, alkyl optionally substituted with alkoxy, sulfonic acid, phosphonic acid, carboxyl, or ammonium, provided that .gtoreq.1 of R2 and R3 is alkyl; R4-R6 = H, alkyl, aryl, heterocyclic; R8 = OH, hydroxyamino, alkyl, aryl, heterocyclic, alkoxy, aryloxy carbamoyl, amino; R7 = CO, SO2, C:NH; m =

0, 1] .gtoreq.125 g/L and a compd. from ACO2M, A1A2A3P:O, II [A-A3 = monovalent atom or group; D = group of atoms necessary to form an arom. or heterocyclic ring; m = H, alkali metal]. The compn. preferably has pH .gtoreq.10.6. The compn. has excellent stability during long-term storage.

=> save temp l7 chelmpatcap/a
 ANSWER SET L7 HAS BEEN SAVED AS 'CHELMPATCAP/A'

=> l7 1-10 ti
 MISSING OPERATOR L7 1-10
 The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> d l7 1-10 ti

L7 ANSWER 1 OF 34 CAPLUS COPYRIGHT 2001 ACS
 TI Ultrahigh-contrast silver halide photographic film and development for manufacturing printing plate by laser scanner

L7 ANSWER 2 OF 34 CAPLUS COPYRIGHT 2001 ACS
 TI Hydroxy-1-azobenzene derivative thrombopoietin mimetics, their preparation, pharmaceutical compositions, and use in treating thrombocytopenia

L7 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2001 ACS
 TI Preparation of organic compounds containing nitrogen and the use as detergent booster-catalyst thereof

L7 ANSWER 4 OF 34 CAPLUS COPYRIGHT 2001 ACS
 TI Indoloylguanidine derivatives useful as inhibitors of Na+/H+ exchanger

activity.

- L7 ANSWER 5 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Cytofectin dimers and methods of use thereof
- L7 ANSWER 6 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of IL-5 inhibiting 6-azauracil derivatives
- L7 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of 4-quinolinemethanol derivatives as purine receptor antagonists. (II)
- L7 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of precursors for PNA monomers
- L7 ANSWER 9 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of metal chelates as pharmaceutical imaging agents
- L7 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of metal chelates of cysteinylethylene, thioacetamidethiourea, or dithiourea derivatives as pharmaceutical imaging agents
- => d 17 11-20 ti
- L7 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of peptide heterocyclic amidines for use as thrombin inhibitors
- L7 ANSWER 12 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of peptide heterocyclic amidines for use as kallikrein protease inhibitors
- L7 ANSWER 13 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of dithiocarbazates as pesticides
- L7 ANSWER 14 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of amidinopyrroline derivatives for use as pharmaceutical agents
- L7 ANSWER 15 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of N-(aminohydroxyalkyl)quinazolinediones and analogs as glycan phosphatidylinositol cellular signaling inhibitors
- L7 ANSWER 16 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Method of treating cystic fibrosis using a tachykinin receptor antagonist
- L7 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI synthesis and antibiotic activity of stabilized carbapenems
- L7 ANSWER 18 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of peptidyl inhibitors of factor Xa
- L7 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of heterocyclyl-containing O-substituted alcoholamines as fibrinogen receptor antagonist prodrugs
- L7 ANSWER 20 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of guanidinyl peptides as serine protease inhibitors

=> d 17 21-34 ti

L7 ANSWER 21 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of amino acid and peptide free radical scavengers as drugs.

L7 ANSWER 22 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Silver halide photosensitive material and processing thereof

L7 ANSWER 23 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Processing of black-and-white silver halide photographic material

L7 ANSWER 24 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Bis-urea agents acting at cholecystokinin receptors

L7 ANSWER 25 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of xanthines and analogs as second messenger cell signaling inhibitors

L7 ANSWER 26 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of arylbis-ureas and benzenesulfonamides acting at cholecystokinin receptors

L7 ANSWER 27 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of ester derivatives of 4-azasteroids as steroid 5.alpha.-reductase inhibitors.

L7 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of 17-ethers and thioethers of 4-aza-steroids as steroid reductase inhibitors

L7 ANSWER 29 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Heterocyclic sulfonamides useful as carbonic anhydrase inhibitors for treatment of glaucoma

L7 ANSWER 30 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of nitrogen-contg. compounds for inositol phosphate bioavailability

L7 ANSWER 31 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Use of renin inhibitors for the treatment of glaucoma

L7 ANSWER 32 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI A concentrated color developer composition for silver halide photographic light-sensitive materials

L7 ANSWER 33 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Pressure- and heat-sensitive recording materials with good sensitivity, storability and image stability

L7 ANSWER 34 OF 34 CAPLUS COPYRIGHT 2001 ACS
TI Technetium-99m complexes with diaminothio compounds for examining renal function

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

32.72

265.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

| | ENTRY | SESSION |
|---------------------|-------|---------|
| CA SUBSCRIBER PRICE | -1.76 | -1.76 |

FILE 'REGISTRY' ENTERED AT 09:32:54 ON 24 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 23 DEC 2001 HIGHEST RN 378185-72-9
DICTIONARY FILE UPDATES: 23 DEC 2001 HIGHEST RN 378185-72-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STN Note 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>
Uploading 09720965 cl 1 query.str

L10 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> d l10
L10 HAS NO ANSWERS
L10 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> search l10 sss sam
SAMPLE SEARCH INITIATED 09:34:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10

=> search l10 sss full

FULL SEARCH INITIATED 09:34:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 59 TO ITERATE

100.0% PROCESSED 59 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.02

L12 0 SEA SSS FUL L10

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 134.49 | 400.19 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| CA SUBSCRIBER PRICE | 0.00 | -1.76 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:35:24 ON 24 DEC 2001

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1623paz
PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 09:37:38 ON 24 DEC 2001
FILE 'REGISTRY' ENTERED AT 09:37:38 ON 24 DEC 2001
COPYRIGHT (C) 2001 American Chemical Society (ACS)

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 134.49 | 400.19 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| CA SUBSCRIBER PRICE | 0.00 | -1.76 |

=>

Uploading 09720965 cl 1 query.str

L13 STRUCTURE UPLOADED

=> d l13

L13 HAS NO ANSWERS

L13 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l13 sss sam

SAMPLE SEARCH INITIATED 09:38:23 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 19 TO ITERATE

100.0% PROCESSED 19 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 119 TO 641
PROJECTED ANSWERS: 0 TO 0

L14 0 SEA SSS SAM L13

=> s l13 sss full
FULL SEARCH INITIATED 09:38:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 490 TO ITERATE

100.0% PROCESSED 490 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L15 0 SEA SSS FUL L13

| | | |
|--|------------|---------|
| => logoff hold | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 268.36 | 534.06 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -1.76 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:38:49 ON 24 DEC 2001

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:sssptal623paz
PASSWORD:
* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 09:57:08 ON 24 DEC 2001
FILE 'REGISTRY' ENTERED AT 09:57:08 ON 24 DEC 2001
COPYRIGHT (C) 2001 American Chemical Society (ACS)

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 268.36 | 534.06 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -1.76 |

| | | |
|--|------------|---------|
| => file caplus | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 268.36 | 534.06 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -1.76 |

FILE 'CAPLUS' ENTERED AT 09:57:25 ON 24 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1907 - 24 Dec 2001 VOL 135 ISS 26
FILE LAST UPDATED: 23 Dec 2001 (20011223/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

```
=> terbium or tb
      27177 TERBIUM
      22894 TB
      639 TBS
      23506 TB
      (TB OR TBS)
L16   40845 TERBIUM OR TB

=> Europium or Eu
      43913 EUROPIUM
      7 EUROPIUMS
      43914 EUROPIUM
      (EUROPIUM OR EUROPIUMS)
      34829 EU
      832 EUS
      35427 EU
      (EU OR EUS)
L17   60550 EUROPIUM OR EU

=> l16 or l17
L18   85457 L16 OR L17

=> fluore?
L19   323093 FLUORES?
```

=> 118 and 119

L20 7037 L18 AND L19

=> aminoquinoline

2741 AMINOQUINOLINE

727 AMINOQUINOLINES

L21 3075 AMINOQUINOLINE

(AMINOQUINOLINE OR AMINOQUINOLINES)

=> 120 and 121

L22 4 L20 AND L21

=> d 122 1-4 ti

L22 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2001 ACS

TI Pharmaceuticals and apparatus based on Moessbauer isotopic resonant absorption of .gamma. emission (MIRAGE) providing diagnosis and selective tissue necrosis

L22 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2001 ACS

TI Photophysical study of the calcium(2+)-chelator QUIN 2 ligand: effect of divalent and trivalent cations

L22 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2001 ACS

TI A **fluorescence** stopped-flow kinetic study of the displacement of 2-[(2-bis[carboxymethyl]amino-5-methylphenoxy)methyl]-6-methoxy-8-bis[carboxymethyl]**aminoquinoline** (quin2) from its calcium(2+), praseodymium(3+), **terbium**(3+), dysprosium(3+), and ytterbium(3+) complexes by ethylenedinitrilotetraacetate (EDTA) in aqueous solution

L22 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2001 ACS

TI Synthesis of N-5-quinolinyl[11.alpha.-hydroxy-4-pregnen-3,20-dionehemisuccinamide] and its use as a ligand in mixed complexes with **europium**(III)

=> aminoacetophenone

1832 AMINOACETOPHENONE

182 AMINOACETOPHENONES

L23 1920 AMINOACETOPHENONE

(AMINOACETOPHENONE OR AMINOACETOPHENONES)

=> 120 and 123

L24 2 L20 AND L23

=> d 124 1-2 ti

L24 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS

TI Manufacture of inorganic glasses from metal complexes by sol-gel processing and their inorganic glasses

L24 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS

TI Energy transfer from aromatic monoketones to rare earth ions

=> d 124 ti fbib abs

L24 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS

TI Manufacture of inorganic glasses from metal complexes by sol-gel processing and their inorganic glasses

AN 1999:23189 CAPLUS

DN 130:113947
 TI Manufacture of inorganic glasses from metal complexes by sol-gel processing and their inorganic glasses
 IN Kawa, Manabu
 PA Mitsubishi Chemical Industries Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 11001326 | A2 | 19990106 | JP 1997-153654 | 19970611 |

AB The title inorg. glasses are manufd. from metal elements and metal complexes with ligand contg. super-branched mol. structure. The metal elements are non-clustering atoms or cations and dispersed in inorg. glass matrixes. The inorg. glasses contain 0.01-10 mol.% (vs. total cations) the above dispersed metal elements. The inorg. glasses are suitable for **fluorescent** materials, optical recording materials, etc.

=> d 124 2 ti fbib abs

L24 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS
 TI Energy transfer from aromatic monoketones to rare earth ions
 AN 1995:175467 CAPLUS
 DN 122:251779
 TI Energy transfer from aromatic monoketones to rare earth ions
 AU Wang, Yuguo; Gong, Mingxuan; Tian, Ke; Ma, Xiaodong; Liu, Changchun; Li, Tiejin; Zhu, Ziqiang
 CS Dep. Chem., Jilin Univ., Changchun, 130023, Peop. Rep. China
 SO Jilin Daxue Ziran Kexue Xuebao (1994), (3), 89-94
 CODEN: CLTTDI; ISSN: 0529-0279
 DT Journal
 LA Chinese
 AB The intermol. energy transfer from the arom. monoketones to rare earth ions (Eu³⁺, Tb³⁺) in acetone soln. were investigated using **fluorescence** excitation and emission spectroscopies. The lowest triplet of arom. ketones must be higher than the excited state of rare earth ions if the energy transfer takes place. The energy dependence is
 a necessary condition. Also other factors such as the nature of the substituent attached to the benzene and steric effect will greatly influence the efficiency and the occurrence of energy transfer.

=> aminbenzophenone

0 AMINBENZOPHENONE
 L25 0 AMINBENZOPHENONE

=> aminobenzophenone

1265 AMINOBNZOPHENONE
 376 AMINOBNZOPHENONES
 L26 1432 AMINOBNZOPHENONE
 (AMINOBNZOPHENONE OR AMINOBNZOPHENONES)

=> 126 and 120

L27 2 L26 AND L20

=> d 127 1-2 ti

L27 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of novel **fluorescent** lanthanide chelates for use in
bioaffinity assays

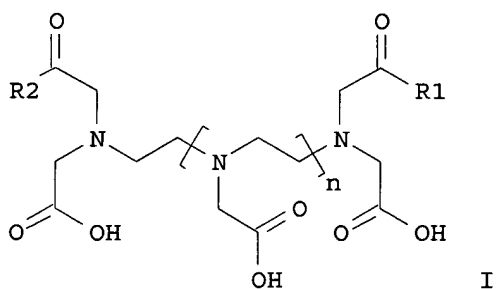
L27 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS
TI **Fluorescent** chelates and labeled specific binding reagents
prepared from them

=> d l27 1-2 ti fbib abs

L27 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of novel **fluorescent** lanthanide chelates for use in
bioaffinity assays
AN 2000:34852 CAPLUS
DN 132:102050
TI Preparation of novel **fluorescent** lanthanide chelates for use in
bioaffinity assays
IN Chan, George Wai-Kin; Hertzberg, Robert P.
PA SmithKline Beecham Corporation, USA
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|------------------|------------|
| PI | WO 2000001663 | A1 | 20000113 | WO 1999-US15366 | 19990707 |
| | W: CA, JP, US | | | | |
| | RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| | | | | US 1998-91944 | P 19980707 |
| | EP 1095011 | A1 | 20010502 | EP 1999-932334 | 19990707 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| | | | | US 1998-91944 | P 19980707 |
| | | | | WO 1999-US15366W | 19990707 |

GI



AB The present invention provides complexing agents of Formula (I) which contain novel photosensitizers and produce long-lived **fluorescence** for use in bioaffinity assays, esp. HTRF (homogeneous time-resolved **fluorescence**) assays. Thus, 3AAP-DTPA-4APEA (I; R1 = NH-C6H4-3-COCH3, R2 = NHCH2CH2-C6H4-4-NH2) was prepd. and **fluorescence** lifetimes of its **Eu**(III) and **Tb** (III) chelates measured.

RE.CNT 5

RE

- (1) Chen; Bioconjugate Chem, Caplus 1999:79347 1999, V10(2), P311 CAPLUS
- (2) Gong; Chem Res Chin Univ, Caplus 1999:130288 1998, V14(4), P359 CAPLUS
- (3) Gong; Zhongguo Xitu Xuebao, Caplus 1998:800284 1997, V15(4), P289 CAPLUS
- (4) LI; Bioconjugate Chem, Caplus 1997:154993 1997, V8(2), P127 CAPLUS
- (5) Phimpvivong; Bioconjugate Chem, Caplus 1998:269349 1998, V9(3), P350 CAPLUS

L27 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS

TI **Fluorescent** chelates and labeled specific binding reagents prepared from them

AN 1983:218134 CAPLUS

DN 98:218134

TI **Fluorescent** chelates and labeled specific binding reagents prepared from them

IN Hinshaw, Jerald Clyde; Toner, John Luke; Reynolds, George Arthur

PA Eastman Kodak Co., USA

SO Eur. Pat. Appl., 50 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|----------|
| | ----- | --- | ----- | ----- | ----- |
| PI | EP 68875 | A2 | 19830105 | EP 1982-303380 | 19820628 |
| | EP 68875 | A3 | 19830504 | | |
| | EP 68875 | B1 | 19871223 | | |
| | R: DE, FR, GB | | | | |
| | CA 1205028 | A1 | 19860527 | US 1981-279398 | 19810701 |
| | | | | CA 1982-405050 | 19820611 |
| | | | | US 1981-279398 | 19810701 |
| | JP 58008783 | A2 | 19830118 | JP 1982-112653 | 19820701 |
| | JP 06014042 | B4 | 19940223 | | |
| | | | | US 1981-279398 | 19810701 |
| | US 4637988 | A | 19870120 | US 1986-825693 | 19860203 |
| | | | | US 1981-279398 | 19810701 |
| | US 4670572 | A | 19870602 | US 1986-825009 | 19860203 |
| | | | | US 1981-279398 | 19810701 |
| | US 4801722 | A | 19890131 | US 1987-7024 | 19870127 |
| | | | | US 1981-279398 | 19810701 |
| | | | | US 1986-825693 | 19860203 |
| | US 4794191 | A | 19881227 | US 1988-151847 | 19880203 |
| | | | | US 1981-279398 | 19810701 |
| | | | | US 1986-825693 | 19860203 |
| | | | | US 1987-7024 | 19870127 |
| | US 4859777 | A | 19890822 | US 1988-285163 | 19881216 |
| | | | | US 1981-279398 | 19810701 |
| | | | | US 1986-825693 | 19860203 |
| | | | | US 1987-7024 | 19870127 |
| | | | | US 1987-40385 | 19870420 |

PATENT FAMILY INFORMATION:

FAN 1989:530322

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|----------|
| | ----- | --- | ----- | ----- | ----- |
| PI | EP 288256 | A2 | 19881026 | EP 1988-303543 | 19880420 |
| | EP 288256 | A3 | 19910626 | | |
| | R: DE, FR, GB | | | | |
| | US 4837169 | A | 19890606 | US 1987-40385 | 19870420 |
| | | | | US 1987-40385 | 19870420 |
| | | | | US 1981-279398 | 19810701 |

| | | | | |
|-------------|----|----------|----------------|----------|
| CA 1292710 | A1 | 19911203 | US 1986-825693 | 19860203 |
| | | | US 1987-7024 | 19870127 |
| JP 01045365 | A2 | 19890217 | CA 1987-542828 | 19870723 |
| JP 2614893 | B2 | 19970528 | US 1987-40385 | 19870420 |
| | | | JP 1988-94703 | 19880419 |
| US 4859777 | A | 19890822 | US 1987-40385 | 19870420 |
| | | | US 1988-285163 | 19881216 |
| | | | US 1981-279398 | 19810701 |
| | | | US 1986-825693 | 19860203 |
| | | | US 1987-7024 | 19870127 |
| | | | US 1987-40385 | 19870420 |

OS CASREACT 98:218134

AB Stable **fluorescent** chelates are manufd. comprising a complex of a lanthanide metal and a chelating agent that includes a moiety that is a triplet sensitizer having a triplet energy greater than that of the lanthanide metal and at least 2 heteroatom-contg. groups that form coordinate complexes with lanthanide metals and a 3rd heteroatom-contg. group or heteroatom in or appended to the triplet sensitizer. Thus, a benzoylhydroxybis(N,N-bis(carboxylate)aminomethyl)coumarin-**Eu** chelate was used with an anal. test element contg. ovalbumin and normal rabbit serum and the **fluorescence** signal was a function of the concn. of the **Eu** chelate. The chelate is useful to label a variety of physiol. active materials by binding them to the complex by adsorption or by covalent bonding. The materials are esp. useful in specific binding assay methods.

=> save temp all chelators/l
L# LIST L1-L27 HAS BEEN SAVED AS 'CHELATORS/L'

=>

=>
Executing the logoff script...

=> LOG H

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 36.86 | 570.92 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -2.35 | -4.11 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:09:37 ON 24 DEC 2001

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:sssptal623paz
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 Dec 17 The CA Lexicon available in the CAPLUS and CA files
 NEWS 3 Feb 06 Engineering Information Encompass files have new names
 NEWS 4 Feb 16 TOXLINE no longer being updated
 NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure
 NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
 NEWS 7 May 07 DGENE Reload
 NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL
 NEWS 9 JUL 13 New SDI alert frequency now available in Derwent's
 DWPI and DPCI
 NEWS 10 Aug 23 In-process records and more frequent updates now in
 MEDLINE
 NEWS 11 Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
 NEWS 12 Aug 23 Adis Newsletters (ADISNEWS) now available on STN
 NEWS 13 Sep 17 IMSworld Pharmaceutical Company Directory name change
 to PHARMASEARCH
 NEWS 14 Oct 09 Korean abstracts now included in Derwent World Patents
 Index
 NEWS 15 Oct 09 Number of Derwent World Patents Index updates increased
 NEWS 16 Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File
 NEWS 17 Oct 22 Over 1 million reactions added to CASREACT
 NEWS 18 Oct 22 DGENE GETSIM has been improved
 NEWS 19 Oct 29 AAASD no longer available
 NEWS 20 Nov 19 New Search Capabilities USPATFULL and USPAT2
 NEWS 21 Nov 19 TOXCENTER(SM) - new toxicology file now available on STN
 NEWS 22 Nov 29 COPPERLIT now available on STN
 NEWS 23 Nov 29 DWPI revisions to NTIS and US Provisional Numbers
 NEWS 24 Nov 30 Files VETU and VETB to have open access
 NEWS 25 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
 NEWS 26 Dec 10 DGENE BLAST Homology Search
 NEWS 27 Dec 17 WELDASEARCH now available on STN
 NEWS 28 Dec 17 STANDARDS now available on STN
 NEWS 29 Dec 17 New fields for DPCI
 NEWS 30 Dec 19 CAS Roles modified
 NEWS 31 Dec 19 1907-1946 data and page images added to CA and CAPLUS

 NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,
 CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
 AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
 NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
 NEWS LOGIN Welcome Banner and News Items
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

```
=> file reg
COST IN U.S. DOLLARS                               SINCE FILE      TOTAL
                                                    ENTRY      SESSION
FULL ESTIMATED COST                               0.15          0.15
```

FILE 'REGISTRY' ENTERED AT 07:10:30 ON 28 DEC 2001
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 26 DEC 2001 HIGHEST RN 378741-70-9
 DICTIONARY FILE UPDATES: 26 DEC 2001 HIGHEST RN 378741-70-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
 for more information. See STNnote 27, Searching Properties in the CAS
 Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e 3-aminoacetphenone/cn

```
E1      1      3-AMINOACETANILIDE HYDROCHLORIDE/CN
E2      1      3-AMINOACETANILIDE-4,6-DISULFONIC ACID/CN
E3      0 --> 3-AMINOACETPHENONE/CN
E4      1      3-AMINOACRIDINE/CN
E5      1      3-AMINOACRIDONE/CN
E6      1      3-AMINOACROLEIN/CN
E7      1      3-AMINOACRYLIC ACID/CN
E8      1      3-AMINOACRYLONITRILE/CN
E9      1      3-AMINOACRYLOPHENONE/CN
E10     1      3-AMINOADENINE/CN
E11     1      3-AMINOALANINE SYNTHASE/CN
E12     1      3-AMINOALIZARIN/CN
```

=> e 3-aminoacetophenone/cn

```
E1      1      3-AMINOACETANILIDE HYDROCHLORIDE/CN
E2      1      3-AMINOACETANILIDE-4,6-DISULFONIC ACID/CN
E3      0 --> 3-AMINOACETOPHENONE/CN
E4      1      3-AMINOACRIDINE/CN
E5      1      3-AMINOACRIDONE/CN
E6      1      3-AMINOACROLEIN/CN
E7      1      3-AMINOACRYLIC ACID/CN
E8      1      3-AMINOACRYLONITRILE/CN
E9      1      3-AMINOACRYLOPHENONE/CN
E10     1      3-AMINOADENINE/CN
E11     1      3-AMINOALANINE SYNTHASE/CN
E12     1      3-AMINOALIZARIN/CN
```

=> logoff hod

'HOD' IS NOT VALID HERE

For an explanation, enter "HELP LOGOFF".

=> DIS HIST

(FILE 'HOME' ENTERED AT 07:10:21 ON 28 DEC 2001)

FILE 'REGISTRY' ENTERED AT 07:10:30 ON 28 DEC 2001
E 3-AMINOACETPHENONE/CN
E 3-AMINOACETOPHENONE/CN

=>

=>

Executing the logoff script...

=> LOG H

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.93 | 1.08 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:12:12 ON 28 DEC 2001

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 07:28:48 ON 28 DEC 2001
FILE 'REGISTRY' ENTERED AT 07:28:48 ON 28 DEC 2001
COPYRIGHT (C) 2001 American Chemical Society (ACS)

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.93 | 1.08 |

=> 99-03-6

L1 1 99-03-6
(99-03-6/RN)

=> l1

L2 1 99-03-6
(99-03-6/RN)

=> FILE REG

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 1.55 | 1.70 |

FILE 'REGISTRY' ENTERED AT 07:30:08 ON 28 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 26 DEC 2001 HIGHEST RN 378741-70-9
DICTIONARY FILE UPDATES: 26 DEC 2001 HIGHEST RN 378741-70-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when

conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> STR 99-03-6

:END

L3 STRUCTURE CREATED

=> S L3 EXA SAM

SAMPLE SEARCH INITIATED 07:30:13 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

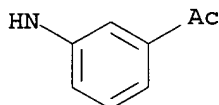
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4 TO 200
PROJECTED ANSWERS: 1 TO 80

L4 1 SEA EXA SAM L3

=>

=> D SCAN

L4 1 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Amidogen, (3-acetylphenyl)- (9CI)
MF C8 H8 N O



ALL ANSWERS HAVE BEEN SCANNED

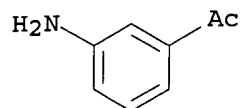
=> S L3 EXA full
FULL SEARCH INITIATED 07:30:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 55 TO ITERATE

100.0% PROCESSED 55 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L5 4 SEA EXA FUL L3

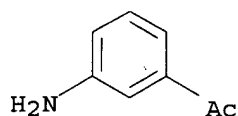
=> d scan

L5 4 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Ethanone, 1-(3-aminophenyl)-, radical ion(1+) (9CI)
MF C8 H9 N O
CI RIS



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

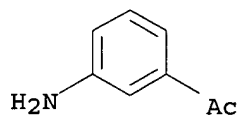
L5 4 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Ethanone, 1-(3-aminophenyl)- (9CI)
MF C8 H9 N O
CI COM



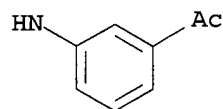
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 4 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Ethanone, 1-(3-aminophenyl)-, homopolymer (9CI)
MF (C8 H9 N O)x
CI PMS

CM 1



L5 4 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Amidogen, (3-acetylphenyl)- (9CI)
MF C8 H8 N O



ALL ANSWERS HAVE BEEN SCANNED

| | | |
|----------------------|------------|---------|
| => file caplus | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 45.37 | 47.07 |

FILE 'CAPLUS' ENTERED AT 07:31:25 ON 28 DEC 2001
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1907 - 28 Dec 2001 VOL 136 ISS 1
 FILE LAST UPDATED: 27 Dec 2001 (20011227/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Caplus now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> 15
 L6 432 L5

| | | |
|----------------------|------------|---------|
| => | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.33 | 47.40 |

FILE 'STNGUIDE' ENTERED AT 07:31:50 ON 28 DEC 2001
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
 COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Dec 14, 2001 (20011214/UP).

=>

| NAME | CREATED | NOTES/TITLE |
|----------------|-------------|------------------------------|
| ----- | ----- | ----- |
| ALKYLATIN/L | 13 DEC 2001 | 9 L-NUMBERS |
| ALLOWANCE/L | TEMP | 17 L-NUMBERS |
| AMINOKETSRCH/L | TEMP | 37 L-NUMBERS |
| CHELATMARPAT/A | TEMP | 34 ANSWERS IN FILE MARPAT |
| CHELATORS/L | TEMP | 27 L-NUMBERS |
| CHELMPATCAP/A | TEMP | 34 ANSWERS IN FILE CAPLUS |
| DIXAMINOKET/A | TEMP | 41 ANSWERS IN FILE CAPLUS |
| INDIUMCL3/A | 30 MAY 2001 | 1 ANSWER IN FILE REGISTRY |
| LASTEARCH/L | TEMP | 73 L-NUMBERS |
| LASTSEARCH/L | TEMP | 11 L-NUMBERS |
| LTWENTAUGFOR/A | 04 AUG 2001 | 72 ANSWERS IN FILE CAPLUS |
| MARPATANSW/A | TEMP | 164 ANSWERS IN FILE CAPLUS |
| MARPATDATA/A | TEMP | 164 ANSWERS IN FILE MARPAT |
| NEOTAMECRYST/A | 24 APR 2001 | 59 ANSWERS IN FILE CAPLUS |
| NVLARMFULGEN/A | 19 APR 2001 | 196 ANSWERS IN FILE REGISTRY |
| POHBENZALDEH/A | 10 JUL 2001 | 5519 ANSWERS IN FILE CAPLUS |
| PROSTACMPD15/A | 01 AUG 2001 | 34 ANSWERS IN FILE CAPLUS |
| STILBENES/L | TEMP | 49 L-NUMBERS |
| TWOAMINOPOLY/Q | 16 APR 2001 | UPLOADED STRUCTURE |
| UPTAKECORE/A | TEMP | 125 ANSWERS IN FILE CAPLUS |

=>

NO SAVED SDI REQUESTS

=>

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.00 | 47.40 |

FILE 'CAPLUS' ENTERED AT 07:32:25 ON 28 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1907 - 28 Dec 2001 VOL 136 ISS 1
FILE LAST UPDATED: 27 Dec 2001 (20011227/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

```
=> eu or europium
      34856 EU
      832 EUS
      35454 EU
          (EU OR EUS)
      43924 EUROPIUM
      7 EUROPIUMS
      43925 EUROPIUM
          (EUROPIUM OR EUROPIUMS)
L7      60585 EU OR EUROPIUM
```

```
=> tb or terbium
      22907 TB
      640 TBS
      23520 TB
          (TB OR TBS)
      27185 TERBIUM
L8      40866 TB OR TERBIUM
```

```
=> lo7 or l8
      3 LO7
L9      40869 LO7 OR L8
```

```
=> l7 or l8
L10      85507 L7 OR L8
```

```
=> l6 and l10
L11      3 L6 AND L10
```

```
=> d l11 1-3 ti
```

```
L11 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of novel fluorescent lanthanide chelates for use in
    bioaffinity assays
```

```
L11 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2001 ACS
TI Determination of organic substances by sensitized luminescence of rare
    earths
```

```
L11 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS
TI Proton magnetic resonance spectra in aromatic systems. XVIII.
    Tris(dipivalomethanato)europium induced shift of para- and
    meta-substituted deuterioanilines
```

```
=> d l11 1-3 ti fbib abs
```

L11 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2001 ACS

TI Preparation of novel fluorescent lanthanide chelates for use in bioaffinity assays

AN 2000:34852 CAPLUS

DN 132:102050

TI Preparation of novel fluorescent lanthanide chelates for use in bioaffinity assays

IN Chan, George Wai-Kin; Hertzberg, Robert P.

PA SmithKline Beecham Corporation, USA

SO PCT Int. Appl., 20 pp.

CODEN: PIXXD2

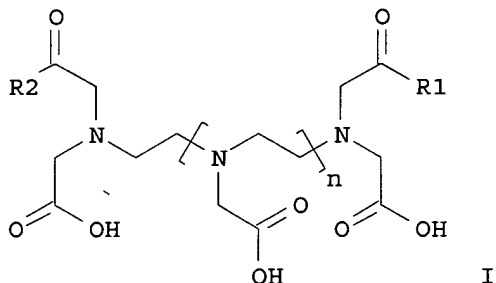
DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|------------------|------------|
| PI | WO 2000001663 | A1 | 20000113 | WO 1999-US15366 | 19990707 |
| | W: CA, JP, US | | | | |
| | RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| | | | | US 1998-91944 | P 19980707 |
| | EP 1095011 | A1 | 20010502 | EP 1999-932334 | 19990707 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| | | | | US 1998-91944 | P 19980707 |
| | | | | WO 1999-US15366W | 19990707 |

GI



AB The present invention provides complexing agents of Formula (I) which contain novel photosensitizers and produce long-lived fluorescence for use

in bioaffinity assays, esp. HTRF (homogeneous time-resolved fluorescence) assays. Thus, 3AAP-DTPA-4APEA (I; R1 = NH-C6H4-3-COCH3, R2 = NHCH2CH2-C6H4-4-NH2) was prepd. and fluorescence lifetimes of its **Eu**(III) and **Tb**(III) chelates measured.

RE.CNT 5

RE

- (1) Chen; Bioconjugate Chem, Caplus 1999:79347 1999, V10(2), P311 CAPLUS
- (2) Gong; Chem Res Chin Univ, Caplus 1999:130288 1998, V14(4), P359 CAPLUS
- (3) Gong; Zhongguo Xitu Xuebao, Caplus 1998:800284 1997, V15(4), P289 CAPLUS
- (4) LI; Bioconjugate Chem, Caplus 1997:154993 1997, V8(2), P127 CAPLUS
- (5) Phimphivong; Bioconjugate Chem, Caplus 1998:269349 1998, V9(3), P350 CAPLUS

L11 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2001 ACS

TI Determination of organic substances by sensitized luminescence of rare

earths
 AN 1979:214773 CAPLUS
 DN 90:214773
 TI Determination of organic substances by sensitized luminescence of rare earths
 AU Bozhevol'nov, E. A.; Stepanova, A. G.; Totskaya, L. G.
 CS All-Union Sci.-Res. Inst. Chem. Reagents Spec. Purity Chem., Moscow, USSR
 SO Zh. Anal. Khim. (1979), 34(2), 344-7
 CODEN: ZAKHA8; ISSN: 0044-4502
 DT Journal
 LA Russian
 AB The possibility of the detn. of aldehydes and ketones by the luminescence of rare earth elements appearing as a result of excitation energy transfer

from org. compds. to the rare earth ions was studied. Acetophenone (4×10^{-7} – 4×10^{-4} g/mL) can be detd. by the luminescence of **Eu** and **Tb**. The detection limit when Dy is used is 4×10^{-5} g/mL. Sm cannot be used. The simultaneous detn. of m- and p-aminoacetophenone was studied. The meta isomer (4.5×10^{-7} – 4.5×10^{-4} g/mL) can be detd. in the presence of the para isomer by the luminescence of **Eu**; 4.5×10^{-7} – 4.5×10^{-4} g/mL of the para isomer can be detd. by using **Tb**, while the sensitivity for the detn. of the meta isomer is 1 order lower. The std. deviation is 1.3×10^{-5} and 3.0×10^{-6} g/mL for the para isomer and 3.3×10^{-6} and 6.0×10^{-6} g/mL for the meta isomer at concns. of 4.50×10^{-5} and 6.75×10^{-5} g/mL, resp.

L11 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS
 TI Proton magnetic resonance spectra in aromatic systems. XVIII. Tris(dipivalomethanato)**europium** induced shift of para- and meta-substituted deuteroanilines
 AN 1974:107448 CAPLUS
 DN 80:107448
 TI Proton magnetic resonance spectra in aromatic systems. XVIII. Tris(dipivalomethanato)**europium** induced shift of para- and meta-substituted deuteroanilines
 AU Sasaki, Yoshio; Takahata, Akira; Yoritaka, Michiko; Kawaki, Hideko; Okazaki, Yuko
 CS Fac. Pharm. Sci., Osaka Univ., Toyonaka, Japan
 SO Chem. Pharm. Bull. (1974), 22(1), 50-4
 CODEN: CPBTAL
 DT Journal
 LA English
 AB The paramagnetic shift parameters of para- and meta-substituted PhNH₂ and deuterated derivs. induced by tris(dipivalomethanato)**europium** were measured. The obsd. shift values of the substituted compds. were linearly related with the substituent consts. The slope ratio of the deuterated to the undeuterated compds. was 1.35 and the shift parameters of the deuterated compds. was greater than those of the undeuterated compds.

=> 99-92-3

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
 Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L13 1470 L12

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

1.88

68.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-1.76

FILE 'CAPLUS' ENTERED AT 07:39:55 ON 28 DEC 2001

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1907 - 28 Dec 2001 VOL 136 ISS 1

FILE LAST UPDATED: 27 Dec 2001 (20011227/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Caplus now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> l13 and l10

L14 7 L13 AND L10

=> l14 not l11

L15 5 L14 NOT L11

=> d l15 1-5 ti

L15 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2001 ACS
 TI Manufacture of inorganic glasses from metal complexes by sol-gel processing and their inorganic glasses

L15 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2001 ACS
 TI Lanthanide (III) complexes with a hydrazone derived from a novel amido acid and isonicotinic acid hydrazide: synthesis, characterization and antibacterial activity

L15 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS
 TI Energy transfer from aromatic monoketones to rare earth ions

L15 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS
 TI Synthesis and physicochemical properties of some alkyl sulfinamoyl esters, inhibitors of coniferyl alcohol dehydrogenase

L15 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2001 ACS
 TI Triazene drug metabolites. Part 6. The interaction of N-hydroxymethyltriazenes with lanthanide-induced shift reagents

=> d l15 3 ti fbib abs

L15 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS
 TI Energy transfer from aromatic monoketones to rare earth ions
 AN 1995:175467 CAPLUS
 DN 122:251779
 TI Energy transfer from aromatic monoketones to rare earth ions
 AU Wang, Yuguo; Gong, Mingxuan; Tian, Ke; Ma, Xiaodong; Liu, Changchun; Li, Tiejin; Zhu, Ziqiang
 CS Dep. Chem., Jilin Univ., Changchun, 130023, Peop. Rep. China
 SO Jilin Daxue Ziran Kexue Xuebao (1994), (3), 89-94
 CODEN: CLTTDI; ISSN: 0529-0279
 DT Journal
 LA Chinese
 AB The intermol. energy transfer from the arom. monoketones to rare earth ions (Eu³⁺, Tb³⁺) in acetone soln. were investigated using fluorescence excitation and emission spectroscopies. The lowest triplet of arom. ketones must be higher than the excited state of rare earth ions if the energy transfer takes place. The energy dependence is a necessary condition. Also other factors such as the nature of the substituent attached to the benzene and steric effect will greatly influence the efficiency and the occurrence of energy transfer.

=> logoff hold

| | | |
|--|------------------|---------------|
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST | 5.49 | 74.10 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -0.59 | -2.35 |

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 07:43:16 ON 28 DEC 2001

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:52:20 ON 28 DEC 2001
FILE 'CAPLUS' ENTERED AT 07:52:20 ON 28 DEC 2001
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 5.49 | 74.10 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| CA SUBSCRIBER PRICE | -0.59 | -2.35 |

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 5.82 | 74.43 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| CA SUBSCRIBER PRICE | -0.59 | -2.35 |

FILE 'REGISTRY' ENTERED AT 07:52:38 ON 28 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 26 DEC 2001 HIGHEST RN 378741-70-9
DICTIONARY FILE UPDATES: 26 DEC 2001 HIGHEST RN 378741-70-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

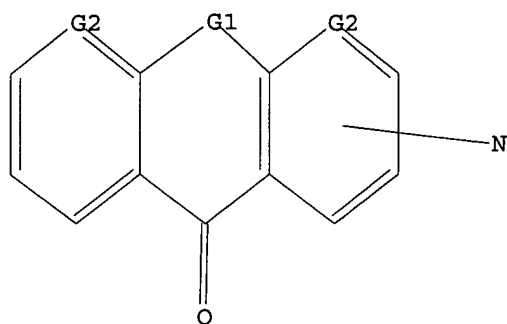
Uploading 09720965 cl 3.str

L16 STRUCTURE UPLOADED

=> d l16

L16 HAS NO ANSWERS

L16 STR



G1 O,N

G2 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s l16 sss sam

SAMPLE SEARCH INITIATED 07:53:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 10449 TO ITERATE

9.6% PROCESSED 1000 ITERATIONS

1 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 202865 TO 215095

PROJECTED ANSWERS: 15 TO 401

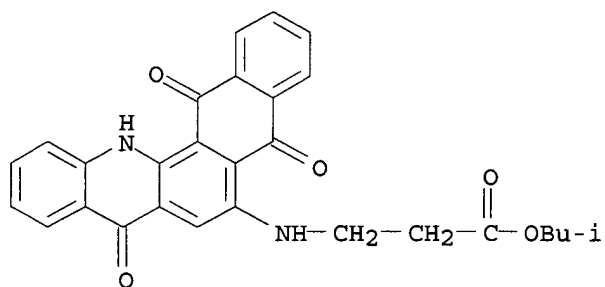
L17 1 SEA SSS SAM L16

=> d scan

L17 1 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN .beta.-Alanine, N-(5,14-dihydro-5,8,14-trioxonaphth[2,3-c]acridan-6-yl)-, isobutyl ester (8CI)

MF C28 H24 N2 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=>

=>

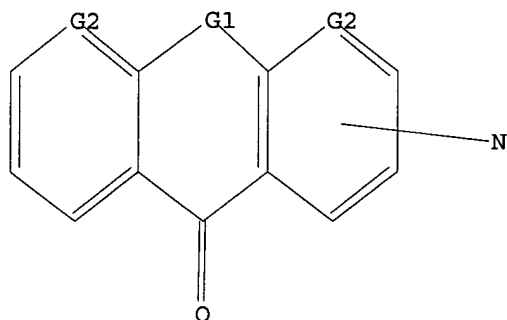
Uploading 09720965 cl 3.str

L18 STRUCTURE UPLOADED

=> d l18

L18 HAS NO ANSWERS

L18 STR



G1 O,N

G2 C,N

Structure attributes must be viewed using STN Express query preparation.

=> search l18 sss sam

SAMPLE SEARCH INITIATED 07:55:24 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 10449 TO ITERATE

9.6% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 202865 TO 215095
PROJECTED ANSWERS: 0 TO 0

L19 0 SEA SSS SAM L18

=> search l18 sss full

FULL SEARCH INITIATED 07:56:07 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 210870 TO ITERATE

100.0% PROCESSED 210870 ITERATIONS
SEARCH TIME: 00.00.04

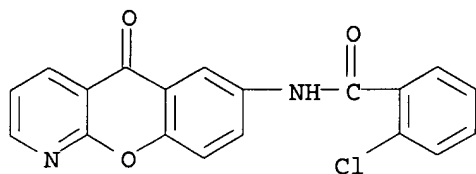
440 ANSWERS

L20 440 SEA SSS FUL L18

=> d scan

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS

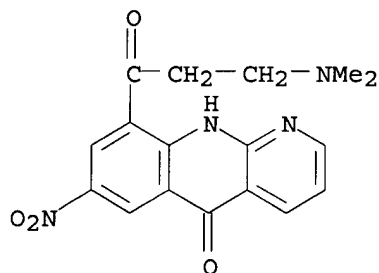
IN Benzamide, 2-chloro-N-(5-oxo-5H-[1]benzopyrano[2,3-b]pyridin-7-yl)- (9CI)
 MF C19 H11 Cl N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

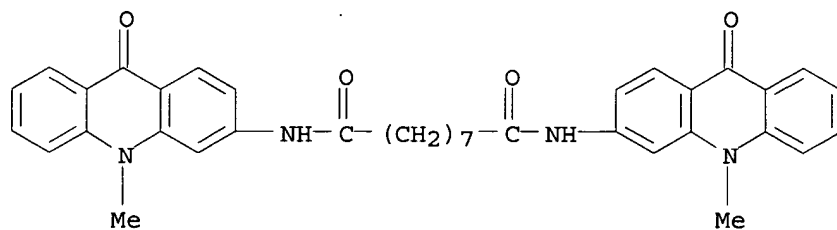
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzo[b][1,8]naphthyridin-5(1H)-one, 9-[3-(dimethylamino)-1-oxopropyl]-7-nitro- (9CI)
 MF C17 H16 N4 O4



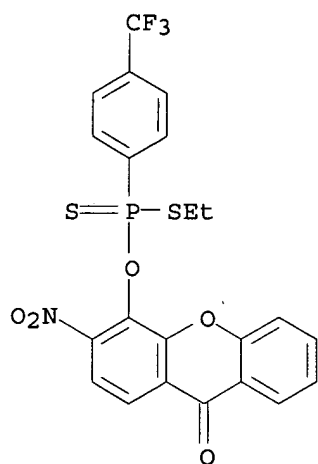
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Nonanediamide, N,N'-bis(9,10-dihydro-10-methyl-9-oxo-3-acridinyl)-, dihydrochloride (9CI)
 MF C37 H36 N4 O4 . 2 Cl H



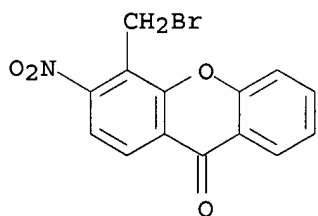
2 HCl

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Phosphonodithioic acid, [4-(trifluoromethyl)phenyl]-, S-ethyl
 O-(3-nitro-9-oxo-9H-xanthen-4-yl) ester (9CI)
 MF C22 H15 F3 N O5 P S2



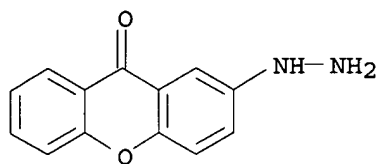
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 9H-Xanthen-9-one, 4-(bromomethyl)-3-nitro- (9CI)
 MF C14 H8 Br N O4



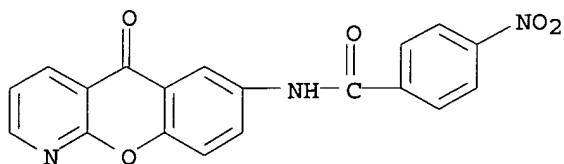
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Xanthen-9-one, 2-hydrazino- (7CI, 8CI)
 MF C13 H10 N2 O2



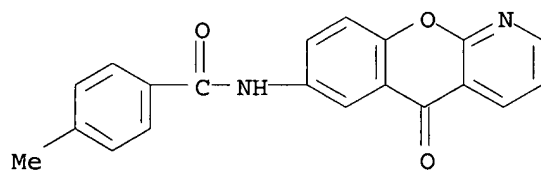
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzamide, 4-nitro-N-(5-oxo-5H-[1]benzopyrano[2,3-b]pyridin-7-yl) - (9CI)
 MF C19 H11 N3 O5



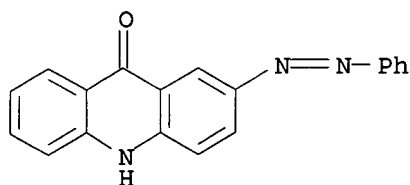
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzamide, 4-methyl-N-(5-oxo-5H-[1]benzopyrano[2,3-b]pyridin-7-yl) - (9CI)
 MF C20 H14 N2 O3



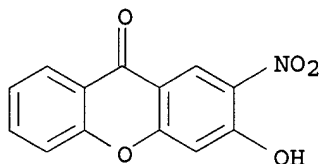
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 9(10H)-Acridinone, 1(or 3)-methyl-7-(phenylazo) - (9CI)
 MF C20 H15 N3 O
 CI IDS



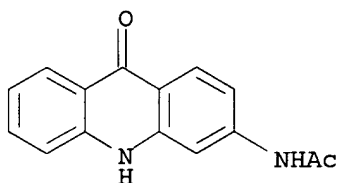
D1- Me

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 9H-Xanthene-9-one, 3-hydroxy-2-nitro- (9CI)
MF C13 H7 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 440 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Acetamide, N-(9,10-dihydro-9-oxo-3-acridinyl)- (9CI)
MF C15 H12 N2 O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

135.42

209.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-2.35

FILE 'CAPLUS' ENTERED AT 07:56:53 ON 28 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1907 - 28 Dec 2001 VOL 136 ISS 1
FILE LAST UPDATED: 27 Dec 2001 (20011227/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> l20
L21 244 L20

=> save temp l21 tripsentzrs/a
ANSWER SET L21 HAS BEEN SAVED AS 'TRIPSENTZRS/A'

| | | |
|--|------------|---------|
| => logoff hold | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.33 | 210.18 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -2.35 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:57:43 ON 28 DEC 2001

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 08:09:41 ON 28 DEC 2001
FILE 'CAPLUS' ENTERED AT 08:09:41 ON 28 DEC 2001
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 0.65 | 210.50 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -2.35 |

=> d his

(FILE 'HOME' ENTERED AT 07:10:21 ON 28 DEC 2001)

FILE 'REGISTRY' ENTERED AT 07:10:30 ON 28 DEC 2001

E 3-AMINOACETPHENONE/CN

E 3-AMINOACETOPHENONE/CN

L1 1 99-03-6

L2 1 L1

FILE 'REGISTRY' ENTERED AT 07:30:08 ON 28 DEC 2001

L3 STR 99-03-6

L4 1 S L3 EXA SAM

L5 4 S L3 EXA FULL

FILE 'CAPLUS' ENTERED AT 07:31:25 ON 28 DEC 2001

L6 432 L5

FILE 'STNGUIDE' ENTERED AT 07:31:50 ON 28 DEC 2001

FILE 'CAPLUS' ENTERED AT 07:32:25 ON 28 DEC 2001

L7 60585 EU OR EUROPIUM

L8 40866 TB OR TERBIUM

L9 40869 LO7 OR L8

L10 85507 L7 OR L8

L11 3 L6 AND L10

S 99-92-3/REG#

FILE 'REGISTRY' ENTERED AT 07:39:33 ON 28 DEC 2001

L12 1 S 99-92-3/RN

FILE 'CAPLUS' ENTERED AT 07:39:35 ON 28 DEC 2001

L13 1470 S L12

FILE 'CAPLUS' ENTERED AT 07:39:55 ON 28 DEC 2001

L14 7 L13 AND L10

L15 5 L14 NOT L11

FILE 'REGISTRY' ENTERED AT 07:52:38 ON 28 DEC 2001

L16 STRUCTURE UPLOADED

L17 1 S L16 SSS SAM

L18 STRUCTURE UPLOADED

L19 0 SEARCH L18 SSS SAM

```

L20          440 SEARCH L18 SSS FULL

          FILE 'CAPLUS' ENTERED AT 07:56:53 ON 28 DEC 2001
L21          244 L20
          SAVE TEMP L21 TRIPSENTZRS/A

=> l10 and l21
L22          0 L10 AND L21

=> sensitiz?
L23          90480 SENSITIZ?

=> l21 and l23
L24          0 L21 AND L23

=> hel rl
HELP FOR 'RL' IS NOT AVAILABLE
For information about help messages available in all files, enter
"HELP MESSAGES". For information about help messages available for
the current file, enter "HELP DIRECTORY". For a list of commands,
enter "HELP COMMANDS".

=> lanth?
L25          120419 LANTH?

=> l21 and l25
L26          0 L21 AND L25

=> photo?
L27          1097713 PHOTO?

=> l21 and l27
L28          24 L21 AND L27

=> triplet
          49235 TRIPLET
          5506 TRIPLETS
L29          51990 TRIPLET
          (TRIPLET OR TRIPLETS)

=> l28 and l29
L30          0 L28 AND L29

=> d l28 10-24 ti

L28 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2001 ACS
TI Structure-activity relationships of quinone and acridone
photosystem II inhibitors

L28 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2001 ACS
TI Formation of Mutagens from the Atmospheric Photooxidants of PAH
and Their Occurrence in Ambient Air

L28 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2001 ACS
TI [3H]-7-Azido-4-isopropylacridone labels Cys159 of the bovine
mitochondrial
ADP/ATP-carrier protein

L28 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2001 ACS
TI Inhibition of electron transport through the Qp site in cytochrome b/c1
complexes by acridones

```

L28 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI On the orientation of **Photosystem** II inhibitors in the QB-binding niche: acridones, xanthenes, and quinones

L28 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Labelling of carbohydrates with 2-aminoacridone for analysis

L28 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Polyacrylamide gel electrophoresis of reducing saccharides labeled with the fluorophore 2-aminoacridone: subpicomolar detection using an imaging system based on a cooled charge-coupled device

L28 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Electrophotographic **photoconductors**

L28 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Composite electrophotographic **photoreceptor** and imaging method using same

L28 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Use of light-sensitive product mixtures for electroless metal deposition

L28 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Light stable quinacridonequinone pigments

L28 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Molecular orbital calculations for azaquinoid ketene and analysis of the intramolecular cycloaddition with the N,N-dimethylanilino group

L28 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Ring-fission of cyclic azo compounds, VII. 6-Fluoro- and 6-nitro-3-phenyl-3,4-dihydro-1,2,3-benzotriazin-4-one and their **photolysis**; nucleophilic substitution as a test of Suschitzky's fluorine labeling method

L28 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI **Photochemical** investigation of nitro-9-acridones in protonated, oxygen-free solvents

L28 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Acridinium dyes with high **photolytic** stability

=> d l28 1-9 ti

L28 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Fluorophore-assisted derivatization analysis of carbohydrates

L28 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI A Detailed Analysis of Neutral and Acidic Carbohydrates in Human Milk

L28 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Spectral and **photochemical** properties of xanthone-based azides

L28 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI Unusual product in the **photolysate** of 2-azidoxanthone

L28 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2001 ACS
 TI A chromatographic and mass spectrometric strategy for the analysis of oligosaccharides: determination of the glycan structures in porcine

thyroglobulin

L28 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2001 ACS
TI Xanthone azides as **photoinitiators** of radical polymerization of methyl methacrylate

L28 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2001 ACS
TI Steady state and time-resolved fluorescence of 2-aminoacridone sugar derivatives

L28 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2001 ACS
TI Silver halide **photographic** material with improved shelf life and latent image stability and a hydroxamic acid to be used for the material

L28 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2001 ACS
TI Analysis of carbohydrates using 2-aminoacridone

=> aminoacridone

104 AMINOACRIDONE
9 AMINOACRIDONES
L31 110 AMINOACRIDONE
(AMINOACRIDONE OR AMINOACRIDONES)

=> d his

(FILE 'HOME' ENTERED AT 07:10:21 ON 28 DEC 2001)

FILE 'REGISTRY' ENTERED AT 07:10:30 ON 28 DEC 2001

E 3-AMINOACETPHENONE/CN
E 3-AMINOACETOPHENONE/CN
L1 1 99-03-6
L2 1 L1

FILE 'REGISTRY' ENTERED AT 07:30:08 ON 28 DEC 2001

STR 99-03-6
L3
L4 1 S L3 EXA SAM
L5 4 S L3 EXA FULL

FILE 'CAPLUS' ENTERED AT 07:31:25 ON 28 DEC 2001

L6 432 L5

FILE 'STNGUIDE' ENTERED AT 07:31:50 ON 28 DEC 2001

FILE 'CAPLUS' ENTERED AT 07:32:25 ON 28 DEC 2001

L7 60585 EU OR EUROPIUM
L8 40866 TB OR TERBIUM
L9 40869 LO7 OR L8
L10 85507 L7 OR L8
L11 3 L6 AND L10
S 99-92-3/REG#

FILE 'REGISTRY' ENTERED AT 07:39:33 ON 28 DEC 2001

L12 1 S 99-92-3/RN

FILE 'CAPLUS' ENTERED AT 07:39:35 ON 28 DEC 2001

L13 1470 S L12

FILE 'CAPLUS' ENTERED AT 07:39:55 ON 28 DEC 2001

L14 7 L13 AND L10
L15 5 L14 NOT L11

FILE 'REGISTRY' ENTERED AT 07:52:38 ON 28 DEC 2001

L16 STRUCTURE UPLOADED
L17 1 S L16 SSS SAM
L18 STRUCTURE UPLOADED
L19 0 SEARCH L18 SSS SAM
L20 440 SEARCH L18 SSS FULL

FILE 'CAPLUS' ENTERED AT 07:56:53 ON 28 DEC 2001

L21 244 L20
SAVE TEMP L21 TRIPSENTZRS/A
L22 0 L10 AND L21
L23 90480 SENSITIZ?
L24 0 L21 AND L23
L25 120419 LANTH?
L26 0 L21 AND L25
L27 1097713 PHOTO?
L28 24 L21 AND L27
L29 51990 TRIPLET
L30 0 L28 AND L29
L31 110 AMINOACRIDONE

=> l25 and l31

L32 0 L25 AND L31

=> d l28 1,9 ti fbib abs

L28 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2001 ACS
TI Fluorophore-assisted derivatization analysis of carbohydrates
AN 2000:238007 CAPLUS
DN 132:262408
TI Fluorophore-assisted derivatization analysis of carbohydrates
IN Klock, John C., Jr.
PA Glyko, Inc., USA
SO U.S., 13 pp., Cont.-in-part of U.S. Ser. No. 753,196, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| PI | US 6048707 | A | 20000411 | US 1992-938832 | 19920831 |
| | | | | US 1991-753196 | 19910830 |

PATENT FAMILY INFORMATION:

FAN 1993:539693

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | WO 9305076 | A1 | 19930318 | WO 1992-US7304 | 19920828 |
| | W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US | | | | |
| | RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG | | | | |
| | | | | US 1991-753196 | 19910830 |
| | AU 9225520 | A1 | 19930405 | AU 1992-25520 | 19920828 |
| | | | | US 1991-753196 | 19910830 |
| | | | | WO 1992-US7304 | 19920828 |

AB Methods and kits for structurally analyzing carbohydrate mols. are taught.

Carbohydrates for anal. are derivatized (preferably methylated) and then hydrolyzed into constituent monosaccharides. The derivatized monosaccharides are then labeled by a fluorophore and sepd. from one

another by electrophoresis. The identity of derivatized monosaccharides is established by comparison with identification stds. The electrophoresis sepn. patterns may be visualized by a charged coupled device camera or **photog.** Oligosaccharides were methylated, hydrolyzed, reacted with 8-amino-1,3,5-naphthalenetrisulfonic acid, disodium salt, and analyzed by PAGE. The fluorescent gel bands were imaged by CCD camera.

RE.CNT 26

RE

- (1) Akhrem; Biochimica et Biophysica Acta 1982, V714, P177 CAPLUS
- (2) Anon; EP 271440 1987 CAPLUS
- (3) Anon; WO 9105256 1991 CAPLUS
- (4) Anon; WO 9112275 1991 CAPLUS
- (5) Anon; WO 9112276 1991 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2001 ACS

TI Analysis of carbohydrates using 2-aminoacridone

AN 1996:50610 CAPLUS

DN 124:111733

TI Analysis of carbohydrates using 2-aminoacridone

IN Jackson, Peter

PA Astromed Ltd., UK

SO U.S., 22 pp. Cont.-in-part of U.S. Ser. No. 52, 785.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 3

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| PI | US 5472582 | A | 19951205 | US 1993-89694 | 19930709 |
| | | | | US 1991-696584 | 19910507 |
| | | | | US 1993-52785 | 19930423 |
| | US 5205917 | A | 19930427 | US 1991-696584 | 19910507 |
| | US 6007691 | A | 19991228 | US 1993-52785 | 19930423 |
| | | | | US 1991-696584 | 19910507 |

PATENT FAMILY INFORMATION:

FAN 1993:55620

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | WO 9219975 | A1 | 19921112 | WO 1992-US3740 | 19920506 |
| | W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE | | | | |
| | RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG | | | | |
| | | | | US 1991-696584 | 19910507 |
| | US 5205917 | A | 19930427 | US 1991-696584 | 19910507 |
| | AU 9220259 | A1 | 19921221 | AU 1992-20259 | 19920506 |
| | | | | US 1991-696584 | 19910507 |
| | | | | WO 1992-US3740 | 19920506 |
| | EP 591290 | A1 | 19940413 | EP 1992-912616 | 19920506 |
| | R: DE, FR, GB | | | | |
| | | | | US 1991-696584 | 19910507 |
| | | | | WO 1992-US3740 | 19920506 |
| | JP 06507969 | T2 | 19940908 | JP 1992-512002 | 19920506 |
| | | | | US 1991-696584 | 19910507 |
| | | | | WO 1992-US3740 | 19920506 |

FAN 1999:818876

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| PI | US 6007691 | A | 19991228 | US 1993-52785 | 19930423 |

US 5205917 A 19930427
US 5472582 A 19951205

US 1991-696584 19910507
US 1991-696584 19910507
US 1993-89694 19930709
US 1991-696584 19910507
US 1993-52785 19930423

AB The present invention provides for the use of the fluorescent label 2-aminoacridone for use in sepg. carbohydrate mixts. and analyzing the structure of carbohydrates. Carbohydrates for anal. may be labeled by 2-aminoacridone and subsequently sepd. from one another by electrophoresis. The electrophoresis may be in one or two dimensions. Band produced by the electrophoresis may be visualized and quantitated directly by UV illumination or by a charge coupled device for **photoelec.** detection. 2-aminoacridone labeling of carbohydrate may also be used to analyze the structure of carbohydrates by cleaving (or adding to) various 2-aminoacridone labeled carbohydrates. The subject invention also provides for kits for performing 2-aminoacridone labeling and electrophoresis.

=> logoff hold

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 37.44 | 247.29 |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| -1.18 | -3.53 |

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 08:22:42 ON 28 DEC 2001

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'CAPLUS' AT 08:43:30 ON 28 DEC 2001

FILE 'CAPLUS' ENTERED AT 08:43:30 ON 28 DEC 2001

COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 37.44 | 247.29 |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| -1.18 | -3.53 |

CA SUBSCRIBER PRICE

=> d his

(FILE 'HOME' ENTERED AT 07:10:21 ON 28 DEC 2001)

FILE 'REGISTRY' ENTERED AT 07:10:30 ON 28 DEC 2001

E 3-AMINOACETPHENONE/CN

E 3-AMINOACETOPHENONE/CN

L1 1 99-03-6

L2 1 L1

FILE 'REGISTRY' ENTERED AT 07:30:08 ON 28 DEC 2001
L3 STR 99-03-6
L4 1 S L3 EXA SAM
L5 4 S L3 EXA FULL

FILE 'CAPLUS' ENTERED AT 07:31:25 ON 28 DEC 2001
L6 432 L5

FILE 'STNGUIDE' ENTERED AT 07:31:50 ON 28 DEC 2001

FILE 'CAPLUS' ENTERED AT 07:32:25 ON 28 DEC 2001
L7 60585 EU OR EUROPIUM
L8 40866 TB OR TERBIUM
L9 40869 LO7 OR L8
L10 85507 L7 OR L8
L11 3 L6 AND L10
S 99-92-3/REG#

FILE 'REGISTRY' ENTERED AT 07:39:33 ON 28 DEC 2001
L12 1 S 99-92-3/RN

FILE 'CAPLUS' ENTERED AT 07:39:35 ON 28 DEC 2001
L13 1470 S L12

FILE 'CAPLUS' ENTERED AT 07:39:55 ON 28 DEC 2001
L14 7 L13 AND L10
L15 5 L14 NOT L11

FILE 'REGISTRY' ENTERED AT 07:52:38 ON 28 DEC 2001
L16 STRUCTURE UPLOADED
L17 1 S L16 SSS SAM
L18 STRUCTURE UPLOADED
L19 0 SEARCH L18 SSS SAM
L20 440 SEARCH L18 SSS FULL

FILE 'CAPLUS' ENTERED AT 07:56:53 ON 28 DEC 2001
L21 244 L20
SAVE TEMP L21 TRIPSENTZRS/A
L22 0 L10 AND L21
L23 90480 SENSITIZ?
L24 0 L21 AND L23
L25 120419 LANTH?
L26 0 L21 AND L25
L27 1097713 PHOTO?
L28 24 L21 AND L27
L29 51990 TRIPLET
L30 0 L28 AND L29
L31 110 AMINOACRIDONE
L32 0 L25 AND L31

=> acridone
1511 ACRIDONE
420 ACRIDONES
L33 1673 ACRIDONE
(ACRIDONE OR ACRIDONES)

=> rhodamine
15898 RHODAMINE
434 RHODAMINES
L34 16019 RHODAMINE
(RHODAMINE OR RHODAMINES)

=> l33 and l34

L35 8 L33 AND L34

=> l35 and l10

L36 0 L35 AND L10

=> d l35 1-8 ti

L35 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2001 ACS

TI Peroxidatively active substance (PAS) determination with PAS-cleavable fluorescer-quencher conjugates

L35 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2001 ACS

TI An apparatus and method for analyzing an organic sample, especially for nucleic acid sequence determination

L35 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2001 ACS

TI Intermolecular energy transfer in mixed laser dyes: photophysical properties of triplet states

L35 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2001 ACS

TI Extinction coefficients of triplet-triplet absorption spectra of organic molecules in condensed phases: a least-squares analysis

L35 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2001 ACS

TI Measurement of nanosecond fluorescence decay times

L35 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2001 ACS

TI Measurement of absolute quantum efficiencies of fluorescence

L35 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2001 ACS

TI Influence of the structure of the molecule and the temperature of the medium on the luminescence and the absorption of complex molecules

L35 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2001 ACS

TI The quenching of fluorescence in solution. III. The nature of the quenching process

=> l35 and l25

L37 0 L35 AND L25

=> d l35 2 ti fbib abs

L35 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2001 ACS

TI An apparatus and method for analyzing an organic sample, especially for nucleic acid sequence determination

AN 1992:629602 CAPLUS

DN 117:229602

TI An apparatus and method for analyzing an organic sample, especially for nucleic acid sequence determination

IN Levis, Robert J.; Romano, Louis J.

PA Wayne State University, USA

SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI WO 9213629 A1 19920820 WO 1992-US714 19920130
 W: CA, JP
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE

US 5210412 A 19930511 US 1991-648282 19910131
 US 5580733 A 19961203 US 1991-748851 19910823
 US 1991-648282 19910131
 US 1994-301732 19940906
 US 1991-648282 19910131
 US 1991-748851 19910823

AB In the preferred embodiment, the method and app. (schematics included) allow the detn. of the base sequence of a nucleic acid by detg. the mol. wts. of the components of a biol. sample. The method uses either a pre-existing chromophore or the covalent attachment of an ionizable chromophore to a biol. sample, followed by vaporization of these mols. by exposure to an intense pulse of electromagnetic radiation in the presence of a matrix which strongly absorbs the radiation. The gaseous mols. are subsequently extd. into an an evacuated ionization chamber and then exposed to electromagnetic radiation at a wavelength which specifically excites the chromophore covalently attached to the biol. sample. In the case of DNA, the invention uses (1) laser vaporization methods to desorb liq. phase DNA strands into the gas phase; (2) pulsed mol. beam nozzle techniques to transport the gas-phase strands from a flowing He atm. into the vacuum system; (3) laser ionization methods to resonantly ionize a label mol. on each DNA strand; and (4) time-of-flight mass spectrometric methods for high mass anal. Extremely large DNA mols. can be efficiently vaporized without any noticeable strand cleavage or degrdn.

Radioisotopes
 and electrophoresis are not required.

=> DTPA

7259 DTPA
 5 DTPAS
 L38 7259 DTPA
 (DTPA OR DTPAS)

=> l33 and l38
 L39 0 L33 AND L38

=> save temp all tbeusearch/l
 L# LIST L1-L39 HAS BEEN SAVED AS 'TBEUSEARCH/L'

=> logoff hold

| | | |
|--|------------------|---------------|
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST | 48.74 | 258.59 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -1.76 | -4.11 |

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 08:47:58 ON 28 DEC 2001